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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,598	09/08/2003		Henry W. Babel	A-1955	1924
33197	7590	07/20/2005		EXAMINER	
•	•	AN & MULLI	WYSZOMIERSKI, GEORGE P		
4 VENTURI IRVINE, CA	•	300		ART UNIT	PAPER NUMBER
,			·	1742	

DATE MAILED: 07/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
· ·	10/658,598	BABEL ET AL.		
Office Action Summary	Examiner	Art Unit		
	George P. Wyszomierski	1742		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with t	he correspondence a	ddress	
A SHORTENED STATUTORY PERIOD FOR REPI	LY IS SET TO EXPIRE 3 MON	TH(S) FROM		
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply by within the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	pe timely filed) days will be considered time from the mailing date of this of ONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 03.	June 2005.			
·_ ·	is action is non-final.			
3) Since this application is in condition for allow	ance except for formal matters,	prosecution as to th	e merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) 1-9 and 11-16 is/are pending in the	application.			
4a) Of the above claim(s) is/are withdra	awn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-9 and 11-16</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/	or election requirement.		•	
Application Papers				
9)☐ The specification is objected to by the Examir	ner.			
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by t	he Examiner.		
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is	s objected to. See 37 C	FR 1.121(d).	
11) The oath or declaration is objected to by the E	Examiner. Note the attached Of	fice Action or form P	TO-152.	
Priority under 35 U.S.C. § 119		•		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).		
 Certified copies of the priority documer 	nts have been received.			
2. Certified copies of the priority documer	nts have been received in Appli	cation No		
3. ☐ Copies of the certified copies of the pri	•	eived in this National	l Stage	
application from the International Bures	, , , , , , , , , , , , , , , , , , , ,			
* See the attached detailed Office action for a lis	it of the certified copies not rec	eived.		
Attachment(s)				
I)	4) 🔲 Interview Sumr Paper No(s)/Ma			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	3) 5) Notice of Inform	nal Patent Application (PT	O-152)	
Paper No(s)/Mail Date	6) Other:			

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Application/Control Number: 10/658,598 Page 2

Art Unit: 1742

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9 and 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2001-001059, in view of Shrayer et al. (U.S. Patent 6,199,419).

The JP '059 reference discloses friction stir welding of several aluminum sheets to form a flat plate, followed by a step of pressing or drawing to produce a parabolic shaped material. JP '059 does not indicate that the latter step entails "spin forming" or the various sub-steps recited in claim 1 as amended, does not disclose the dimensions as recited in claims 4, 5, 11 and 12, and does not disclose annealing prior to spin forming as required by claims 6, 8, and 13-15 or friction stir welding of pieces that are in an annealed condition as defined in claims 9 and 16. However,

- a) The Shrayer patent indicates that it was known in the art, at the time of the invention, to form dome-shaped articles from a flat blank by spin forming, and further discloses that spin forming includes the steps recited in claim 1 as amended. Note particularly Shrayer column 6, lines 1-20.
- b) With respect to the dimensions, the processes as disclosed in the prior art would be amenable to being performed upon material of any desired dimensions, limited only by the capabilities of he apparatus being used in a given process. Clearly one of ordinary skill in the art would have easily been able to coordinate the proper tools and materials necessary to perform the prior art processes upon objects having the presently claimed dimensions.

Application/Control Number: 10/658,598 Page 3

Art Unit: 1742

c) With respect to annealing, Shrayer claim 6 indicates that it was well-known in the art, at the time of the invention, to anneal aluminum alloy blanks prior to spinning. Further, with regard to instant claims 9 and 16, the examiner notes that the instant claims do not positively recite an annealing step but merely allude to one, i.e. material is processed that is in an annealed temper or condition. It is not possible to determine, in any of the prior art references, all of the possible treatments (including annealing) that the materials processed therein may or may not have been subjected to. Nonetheless, the processes of JP '059 or Shrayer would be applicable to being applied to annealed aluminum materials.

Consequently, the combined disclosures of JP '059 and Shrayer et al. would have taught the presently claimed invention to one of ordinary skill in the art.

3. In a response filed June 3, 2005, Applicant alleges that the claimed invention can be distinguished from JP '059 in that the '059 reference does not disclose spin forming or its associated sub-steps. This is not persuasive of patentability because the Shrayer patent shows the conventionality of spin forming and all its attendant steps upon a material analogous to that used in the JP '059 process.

Applicant further alleges that some statement in the present specification regarding what is known about friction stir welding vis-à-vis heat treatment of aluminum alloys would negate the obviousness of annealing after friction stir welding. This is not persuasive of patentability because while the statements in the specification may reflect the present applicant's knowledge, such statements cannot be held to encompass all knowledge of practitioners in the aluminum processing art.

Application/Control Number: 10/658,598 Page 4

Art Unit: 1742

4. The terminal disclaimer filed on June 3, 2005 disclaiming the terminal portion of

any patent granted on this application which would extend beyond the expiration date of

U.S. Patent 6,660,106 has been reviewed and is accepted. The terminal disclaimer has

been recorded.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. Effective <u>July 15, 2005</u>, all patent application related correspondence transmitted by facsimile must be directed to the <u>new central facsimile number</u>, (571)-273-8300. This new Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GPW July 18, 2005 GEORGE WYSZOMIERSKI PRIMARY EXAMINER GROUP 1100